



CONSTRUCTION EQUIPMENT

602630 ATLANTIC TRAS TAKEUCHI TL12V 5474 - DIESEL ENGINE



Sample No: VCP439846
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 602630 ATLANTIC TRAS



SAMPLE INFORMATION

Sample Number	VCP439846	---	---	---
Sample Date	11 Jul 2024	---	---	---
Machine Hours	992	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

ALTA EQUIPMENT COMPANY

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.8	---	---	---
Base Number (BN)	mg KOH/g	■ 9.1	---	---	---
Oxidation (PA)	%	84	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Metal levels are typical for a new component breaking in. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.7	---	---	---
Nitration (PA)	%	87	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 6.4	---	---	---
Silicon	ppm	■ 8	---	---	---
Sodium	ppm	■ 5	---	---	---
Potassium	ppm	■ 12	---	---	---

WEAR METALS

Iron	ppm	■ 22	---	---	---
Copper	ppm	■ 10	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 46	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 1504	---	---	---
Magnesium	ppm	■ 527	---	---	---
Zinc	ppm	■ 1038	---	---	---
Phosphorus	ppm	■ 873	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 27	---	---	---

Depot: VOLVO0095
Unique No: 11127597
Signed: Wes Davis
Report Date: 18 Jul 2024

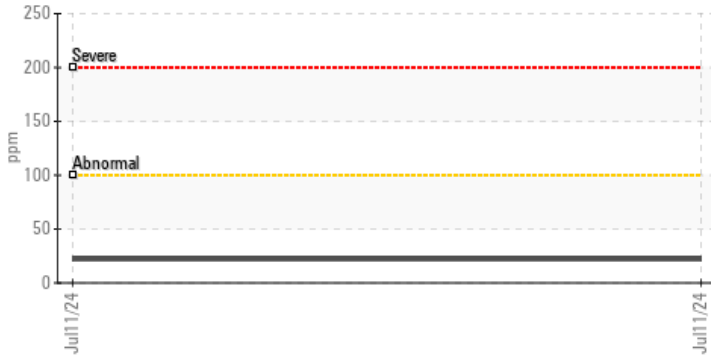


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GRAPHS

Iron (ppm)



Lead (ppm)



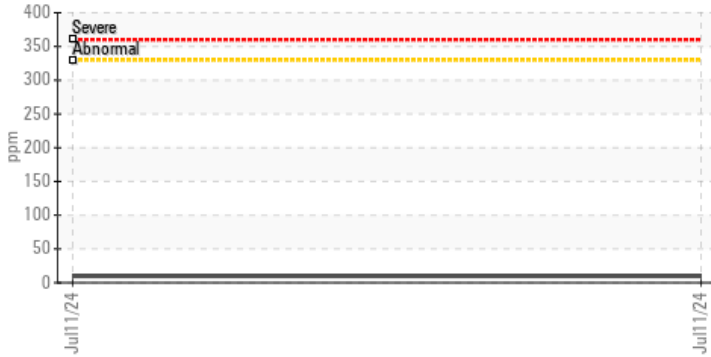
Aluminum (ppm)



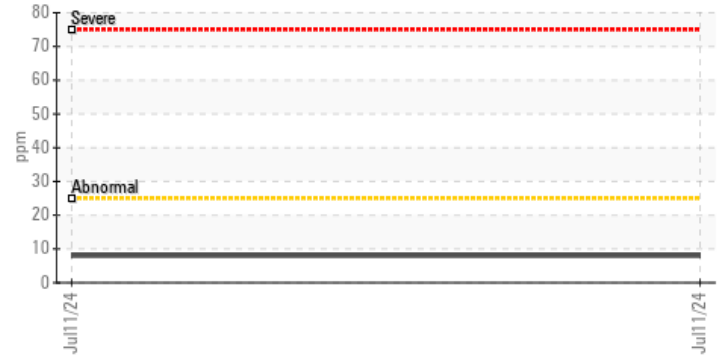
Chromium (ppm)



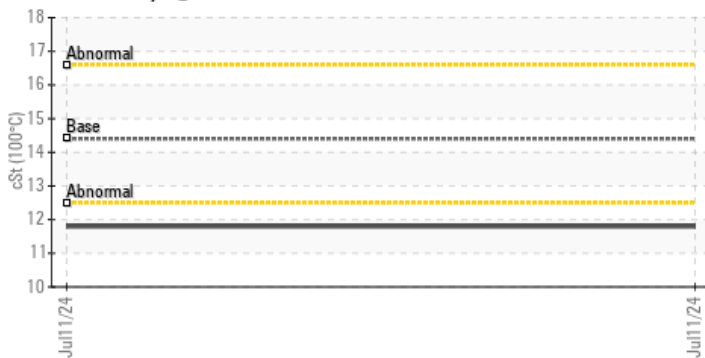
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

